

CLAIMS

1. Cartridge (28) for injection of a product, in particular a pharmaceutical product, by jet without needle, for single use, and intended to be fixed at a first end (5) of the body (1) of an injection device, the second end (4) of the body (1) receiving a cap (3) which is able, by virtue of a relative movement of the body (1), to drive an arming device (2), cooperating with a percussion member (17) intended to cooperate with the cartridge (28), is characterized in that it includes two elements (49, 50):

- the first element (49) made of glass forms the receptacle intended to contain the said product;
- the second element (50) consists of an envelope of plastic material which is overmoulded on the said first element (49).

2. Injection cartridge according to Claim 1, characterized in that the first element (49) is obtained using a type I medical-grade glass.

3. Injection cartridge according to Claim 1, characterized in that the second element (50) is made of a plastic material which possesses the following characteristics:

- withstands a sterilization operation at high temperature,
- is approved for pharmaceutical applications,
- is insensitive to the temperature deviations,
- is translucent, even transparent, and, if appropriate, tinted.

4. Injection cartridge according to Claim 1, characterized in that the first element (49), overall of substantially cylindrical shape, includes, at each end, an orifice (29, 30), one (30) of the orifices having a diameter substantially equivalent to the diameter of a rod (17) of the percussion member, while the other (29), of small diameter, in particular of the

order of a few tenths of a millimetre, serves as nozzle.

5. Injection cartridge according to any one of the preceding claims, characterized in that it includes, at one of its ends, means (51) permitting the engagement and fixing of the said cartridge on the nose of the injection device.

6. Injection cartridge according to Claim 5, characterized in that the means (51) permitting the engagement and fixing are formed during the covering, overmoulding operation by way of a plurality of studs (52) which project radially and are arranged along the diameter of the said cartridge (28), these studs cooperating with the bayonets provided at the end (53) of the injection device.

7. Injection cartridge according to any one of the preceding claims, characterized in that the end (54) of the cartridge (28) is covered by a cap (55) provided at its centre with an elastomeric seal (56), in particular of silicone.

8. Injection cartridge according to Claim 7, characterized in that the cap (55) has lateral walls (57) which enclose the end of the said cartridge (28), the said walls (57) being provided, at their ends, with raised zones (58) allowing them to be clipped into impressions (59) provided on the outer lateral walls of the said cartridge (28), thus ensuring that the cap (55) is held on the cartridge.

9. Injection cartridge according to one of Claims 7 and 8, characterized in that the upper wall (60) of the cap (55) forms a grip zone which allows the user to position the studs (52) of the cartridge (28) in line with the bayonets of the injection device.

10. Injection cartridge according to Claim 7, characterized in that the elastomeric seal (56) is obtained during a simultaneous operation of moulding of the cap (55).

11. Injection cartridge according to Claim 7, characterized in that the elastomeric seal (56) is

12. Injection cartridge according to any one of the preceding claims, characterized in that it includes a plurality of plastic material gaps, formed in the thickness of the plastic overmould of the cartridge (28), in order to produce slots (63) for improving the visibility of the first element (49).

AMENDED SHEET